

Intelligent
Transportation
Systems
Publications Catalog

**FEDERAL TRANSIT ADMINISTRATION
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Accelerating Intelligent Transportation Systems Deployment: A Report from the United States Department of Transportation

This paper by Christine Johnson, Director of the Intelligent Transportation Systems Joint Program Office, describes the federal, state and local government officials and transportation professional roles in deploying and integrating Intelligent Transportation Systems
Report #FHWA-JPO-96-00 16,
November 1995

Advanced Public Transportation Systems: A Bibliography with Abstracts, 1985-1991

This report by the Federal Transit Administration lists bibliographical information about Advanced Public Transportation Systems research projects that are partially or wholly funded or not funded by the Federal Transit Administration
Report #DOT-T-92- 18, April 1992

Advanced Public Transportation Systems Benefits

This document by the Federal Transit Administration lists the benefits that transit authorities in the United States and Canada have experienced in deploying various Advanced Public Transportation Systems technologies March 1996

Advanced Public Transportation Systems Deployment in the United States

This report by the Volpe National Transportation Systems Center summarizes the deployment of Advanced Public Transportation Systems in the United States in a matrix format.
Report #FHWA-JPO-96-0032. August 1996.

Advanced Public Transportation Systems: Evaluation Guidelines

This report by the Volpe National Transportation Systems Center, describes how evaluation guidelines for the Federal Transit Administration's Advanced Public Transportation Systems Operational Tests are implemented and reported.
Report #DOT-T-94- 10. January 1994

Advanced Public Transportation Systems: Project Summaries

This document by the Federal Transit Administration summarizes the current status of Advanced Public Transportation Systems Research Projects that are partially or wholly funded by the Federal Transit Administration and Federal Highway Administration.
April 1996.

Advanced Public Transportation Systems: State of the Art. Update ' 96

This report by the Volpe National Transportation Systems Center and EG&G Dynatrend summarizes the state-of-the-art in Traveler Information Systems, Transit Management Systems, Electronic Payment Systems, and Transportation Demand Management Techniques.
Report #DOT-VNTSC-FTA-95 13,
January 1996.

**Advanced Public Transportation Systems (APTS) Technical Assistance Briefs
APTS Brief #1: What are Advanced Public Transportation Systems?**

This brief by the Federal Transit Administration provides a detailed overview of the Advanced Public Transportation Systems Program. Spring 1993.

APTS Brief #2: Advanced Public Transportation Systems Evaluation Guidelines

This brief by the Federal Transit Administration provides a detailed overview of the evaluation guidelines used to assess Advanced Public Transportation Systems Operational Tests. Summer 1993,

APTS Brief #3: Minnesota Guidestar Travlink

This brief by the Federal Transit Administration provides a detailed overview of the Minnesota Guidestar Travlink. This Operational Test in Minneapolis/St. Paul uses a Global Positioning System-based Automatic Vehicle Location system and Advanced Traveler Information system in the newly constructed I-394 corridor to influence trip-making decisions and travel behaviors. January 1994.

APTS Brief #4: California Advanced Public Transportation Systems

This brief by the Federal Transit Administration provides a detailed overview of the following Advanced Public Transportation Systems Operational Tests in California: Los Angeles Smart Traveler, Los Angeles Smart Card, Yosemite Area Regional Transportation Information System, Santa Clara County Smart Paratransit, and Sacramento Rideshare Operational Tests. February 1994.

APTS Brief #5: Bellevue Smart Traveler

This brief by the Federal Transit Administration provides a detailed overview of the Bellevue Smart Traveler This Operational Test in Washington uses advanced computer and communications technologies to reduce the number of single occupancy vehicles by providing automated ridesharing services to Downtown Bellevue commuters through computers, telephones; and electronic pagers and wrist watches. March 1994.

APTS Brief #6: Houston Smart Commuter

This brief by the Federal Transit Administration provides a detailed overview of the Houston Smart Commuter. This Operational Test uses advanced computer and communications technologies to reduce the number of single occupancy vehicles by disseminating real-time traffic and transit information to commuters on the I-45 North corridor through telephones, cable television, and personal computer devices and by providing automated ridesharing services to commuters on the I-10 West corridor through a telephone system. June 1994.

APTS Brief #7: Denver Smart Vehicle System

This brief by the Federal Transit Administration provides a detailed overview of the Denver Smart Vehicle System. This Operational Test uses a Global Positioning System-based Automatic Vehicle Location system to manage bus fleets more efficiently and to increase schedule adherence. August 1994.

APTS Brief #8: Winston-Salem Mobility Manager

This brief by the Federal Transit Administration provides a detailed overview of the Winston-Salem Mobility Manager This Operational Test in North Carolina provides transportation services to transit users through a mobility management system that automates the dispatching, reporting, and billing of transit services September 1994

APTS Brief #9: Los Angeles Smart Traveler Kiosks

This brief by the Federal Transit Administration provides a detailed overview of the Los Angeles Smart Traveler Kiosks. This Operational Test uses automated, multimedia kiosks in office complexes, shopping malls, and transportation centers to disseminate real-time traffic and transit information, transit schedules, and ridesharing services December 1994

APTS Brief #10: Smart Fare Payment Systems for Public Transit

This brief by the Federal Transit Administration provides a detailed overview of Electronic Payment Systems for Public Transit. This brief focuses on early automation efforts, read-only passes and fare cards, automated fare card sales, smart fare cards, contact cards, radio frequency coupled proximity cards, and a future perspective of the technology are discussed. January 1996.

APTS Brief #11: An Intelligent Transportation System for Atlanta for the 1996 Olympics

This brief by the Federal Transit Administration provides a detailed overview of the Atlanta Traveler Information Showcase. ITS MARTA 96 (Intelligent Transportation Systems Metropolitan Atlanta Rapid Transit Authority 1996). and the Georgia Department of Transportation Advanced Transportation Management System February 1996

Advanced Traveler Aid Systems for Public Transportation

This report by the Federal Transit Administration describes the concept, structure, technology, and implementation of the Intelligent Transit Mobility System which is an innovative system to improve public transportation information dissemination. Report #DOT-T-95-07. September 1994

An Integrated Intelligent Transportation Infrastructure for Your Metropolitan Area

This brochure by the Federal Highway Administration and Federal Transit Administration provides a general overview of the nine intelligent Transportation Infrastructure components-Traffic Signal Control Systems, Freeway Management Systems, Incident Management Systems, Traveler Information Systems, Transit Management Systems, Electronic Payment Systems, Electronic Toll Collection Systems, Railroad Grade Crossing Systems, and Emergency Management Services. Report #FHWA-JPO-96-005, December 1995

Assessment of Intelligent Transportation Systems Commercial Vehicle Operations User Services: Qualitative Benefits and Cost Analysis

This executive summary by the American Trucking Associations Foundation presents the findings of a two-year effort led by the Foundation to explore the impact of Intelligent Transportation Systems technology on the regulatory compliance costs for motor carriers June 1996.

Assessment of Computer Dispatch Technology in the Paratransit Industry

This report by the University of North Carolina, presents the results of an investigation in computer dispatching capabilities of taxicab companies and computer scheduling capabilities of paratransit operations.

Report #DOT-T-92-23, March 1992.

Assessment of Intelligent Transportation Systems Benefits: Early Results

This report by Mitre provides an early assessment of the ongoing uses and benefits of Intelligent Transportation Systems.

Report # FHWA-JPO-96-001, August 1995.

Automated Mileage and Stateline Crossing Operation Test

This evaluation summary by the Center for Transportation Research and Education provides the results of the feasibility of automating the collection of mileage by jurisdiction data and electronic data interchange for the International Fuel Tax Agreement and International Registration Plan reports. May 1996

Bellevue Smart Traveler and Cellular Telecommunications

This report by the Bellevue Transportation Management Association discusses the findings of the Bellevue Smart Traveler Operational Test in Washington. This operational test uses advanced computer and communications technologies to reduce the number of single occupancy vehicles by providing automated ridesharing services through computers, telephones; and electronic pagers and wrist watches to Downtown Bellevue commuters
Report #DOT-T-93-36, May 1993

Benefits Assessment of Advanced Public Transportation Systems

This report by the Volpe National Transportation Systems Center provides a quantitative estimate of the expected benefits to the transit industry with the application of Advanced Public Transportation Systems technologies. April 1996.

Building the Intelligent Transportation Infrastructure: Putting the National Architecture into Action

This handbook by Mitretek for transportation and project managers provides focused information about the National Intelligent Transportation Systems Architecture. This handbook discusses major architecture systems and information flows at a fairly high level. Report #FHWA-JPO-96-0012, January 1996.

California Smart Traveler System

This report by Aegis Transportation Information Systems describes how audiotex and videotex terminals can be used to develop parataxis and carpools and how they can be integrated with conventional transit, paratransit, and ridesharing to reduce traffic congestion, gasoline consumption, air pollution and mobility problems at a low cost to the taxpayer. Report #DOT-T-92-16, February 1992.

Commercial Vehicle Information Systems Network - Statement of Direction

This executive summary by the John Hopkins University Applied Physics Laboratory provides an overview of the Commercial Vehicle Information Systems Network initiative. Report #FHWA-JPO-96-0006, November 1995.

Cost Estimates for Selected California Smart Traveler Operational Tests

This supplemental report to *California Smart Traveler System* by the Aegis Transportation Information Systems estimates the cost of conducting the California Smart Traveler Operational Tests in San Ramon/Pleasanton, University of California at Los Angeles, and Northern San Diego. A cost comparison of implementing Smart Traveler concepts versus the expansion of conventional transit services is included. Report #DOT-T-93-31, March 1993.

Driver Acceptance of Commercial Vehicle Operations Technology in the Motor Carrier Environment

This executive summary examines and addresses the important issues relating to driver acceptance of Commercial Vehicle Operations services. January 1996.

Evaluation of Performance-Based Brake Testing Technologies: Interim Report

This report covers the first year of the field testing phase of a research program on the feasibility of the use of performance-based testing technologies for commercial vehicle safety inspections. December 1995.

German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report

This report by the Aegis Transportation Information Systems describes how new telephone-based information services can be used to enhance the cost-effectiveness of Germany's Flexible Operations Command and Control System, a bus route deviation system. Report #DOT-T-93-25, January 1993.

German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 2, Appendices

This supplemental report to *German "Smart-Bus" Systems: Potential for Application in Portland, Oregon, Volume 1, Technical Report* by the Aegis Transportation Information Systems estimates the cost of conducting the German "Smart Bus" System Operational Test in Portland, Oregon. Report #DOT-T-93-26, January 1993.

Implementation of the National Intelligent Transportation Systems Program: A Report to Congress

This report by the Federal Highway Administration summarizes the Intelligent Transportation Systems Program status since the June 1994 Report, including accomplishments, challenges and associated implications for future directions, and assumes an understanding of information presented in that Report.

Report #FHWA-JPO-96-004, January 1996.

**International Standards Organization
Technical Committee 204 Working
Group 8 Transit/Emergency**

This flyer by the Federal Transit Administration provides an detailed overview of the International Standards Organization's organizational structure and the history and current status of Working -Group 8 which is responsible for developing international transit and emergency Intelligent Transportation Systems standards.
May 1996

**Intelligent Transportation Infrastructure
Deployment Database: Interim Report**

This report by the Federal Highway Administration summarizes the deployment of the Intelligent Transportation Infrastructure in the largest 75 metropolitan areas in a matrix format.
Report #FHWA-JPO-96-00 18. June 1996.

**Intelligent Transportation Infrastructure
(ITI) Flyers:**

ITI Flyer - Electronic Payment Systems

This flyer by the Intelligent Transportation Systems Joint Program Office provides a brief summary of Operation Timesaver and a general overview of Electronic Payment Systems. Report #FHWA-JPO-96-0027, September 1996.

ITI Flyer - Transit Management Systems

This flyer by the Intelligent Transportation Systems Joint Program Office provides a brief summary of Operation Timesaver and a general overview of Transit Management Systems. Report #FHWA-JPO-96-0022, September 1996.

ITI Flyer - Traveler Information Systems

This flyer by the Intelligent Transportation Systems Joint Program Office provides a brief summary of Operation Timesaver and a general overview of Traveler Information

Systems Report #FHWA-JPO-96-0021.
September 1996

**Intelligent Transportation Systems
Operational Test Program - Commercial
Vehicle Operations**

This report summarizes the Commercial Vehicle Operations test and evaluation strategies and program completion plans.
February 1996.

**Intelligent Transportation Systems
Projects**

This report by the Intelligent Transportation Systems Joint Program Office is a comprehensive listing of the Intelligent Transportation Systems research projects in the United States that are wholly or partially funded by the Federal Highway Administration, Federal Transit Administration, Federal Railroad Administration, and the National Highway Traffic Safety Administration.
Report #FHWA-JPO-97-007, January 1997

**Intelligent Transportation Systems User
Services**

This excerpt from Volume 1 of the National Intelligent Transportation Systems Program Plan by the Intelligent Transportation Systems Joint Program Office summarizes the 29 user service bundles for Intelligent Transportation Systems.
Report #FHWA-JPO-95-0004.
January 1995.

**Intelligent Transportation Systems - What
Are the Benefits of the Transit
Components of Intelligent Transportation
Systems?**

This flyer by the Federal Transit Administration lists the specific benefits that transit authorities have experienced in deploying Intelligent Transportation Systems.
April 1996.

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Mobility Management and Market Oriented Local Transportation

This report by Jeffrey A. Parker & Associates and the International Taxicab and Livery Association describes the feasibility and cost-effectiveness of integrating local transportation services offered by multiple providers. Report #DOT-T-92-7, March 1991.

National Intelligent Transportation Systems Architecture: Transit Issues and Recommendations

This white paper by the Sandia National Laboratories examines a number of issues relating to the transit aspects of the National Intelligent Transportation Systems Architecture. October 1995

Operation TimeSaver: Intelligent Transportation Infrastructure Benefits - Expected and Experienced

This report by Mitre documents the benefits of implementing an Intelligent Transportation Infrastructure. Report #FHWA-JPO-96-0008, January 1996

Operation TimeSaver: Intelligent Transportation Infrastructure Transit Components

This flyer by the Federal Transit Administration summarizes Operation TimeSaver and lists specific benefits and costs of the Intelligent Transportation Infrastructure transit components. May 1996.

Review and Assessment of En-Route Transit Information Systems

This report by EG&G Dynatrend reviews the current efforts to design, develop, and implement en-route transit information systems, and includes a discussion of the state-of-the-art in en-route transit information

systems with respect to the User Service Development Plan identified in the *National Program for ITS: Volume 2 Report* #DOT-T-96-03, July 1995

Review of and Preliminary Guidelines for Integrating Transit into Transportation Management Centers

This report by EG&G Dynatrend investigates the integration of traffic and transit operations at several Transportation Management Centers in the United States. Report #DOT-T-94-25, July 1994

Shared Resources: Sharing Right-of-Way for Telecommunications - Guidance on Legal and Institutional Issues

This report by Apogee Research identifies 20 institutional and non-technical issues that figure prominently in shared resource arrangements. This report also describes each issue and outlines the options available, summarized advantages and disadvantages of some of the most salient, and describes the stages in development of a shared resource project. Report #FHWA-JPO-96-0015, April 1996

Shared Resources: Sharing Right-of-Way for Telecommunications - Identification, Review, and Analysis of Legal and Institutional Issues

This report by Apogee Research identifies and explores 20 issues associated with implementation of shared resource projects and describes various options for dealing with these issues. This report also presents five case studies to illustrate the types of arrangements that have been implemented to date. Report #FHWA-JPO-96-0014, April 1996.

Telecommunications in Transportation: Key Issues and Best Practices

This report by the Intelligent Transportation Systems Joint Program Office provides an overview of the approaches that have been successfully employed by a number of state and local governments to deal with the need to develop and deploy a sophisticated telecommunications networks to gather and distribute data for Intelligent Transportation Systems. Report #FHWA-JPO-96-0034 September 1996

The National Architecture for Intelligent Transportation Systems: A Framework for Integrated Transportation into the 21st Century

This executive summary by Mitretek for transportation officials and executives provides a general introduction into the National Architecture.
Report #FHWA-JPO-96-00 12, January 1996
Also available on CD ROM.

Transit Geographical Information Systems

This brochure by the Federal Transit Administration provides an detailed overview of the Transit Geographical Information Systems Program, part of the National Spatial Data Infrastructure.
Report #FHWA-JPO-96-0009 August 1995.

Smart Moves

This booklet by Public Technologies Inc. documents a decision maker's guide to the Intelligent Transportation Infrastructure.
January 1996

U.S. Intermodal Freight Transportation: Opportunities and Obstacles

This final report by the Michigan State University provides a better understanding of the needs and priorities of the various stakeholders, identification of opportunities and obstacles in the implementation of

inter-modal policies to the freight transportation sector. and the federal government's role in intermodal freight transportation as it relates to Commercial Vehicle Operations technologies. May 1996.

World Business Review

This one hour video tape shows Intelligent Transportation Systems speeding the flow of traffic and helping drivers go the distance.

Intelligent Transportation Systems Information Survey

The purpose of this survey is to get your feedback on ITS-related materials collected and distributed in an effort to provide you with the information you need and in the-media you want. This survey should take less than 10 minutes to complete. Thank you for your time and assistance!

1. Does the information (publications, brochures, videos) contained in this catalog cover the areas that interest you (or that you need to do your job)?

_____ yes _____ no

2. What areas/topics require more information?

3. What is the best method of dissemination?

_____ printed (brochures, pamphlets, reports)

_____ electronic (internet)

_____ video tapes

_____ other

4. What are your thoughts on ways to spread the ITS message within and outside of the ITS community? Example: articles in publications, segments of on national and local television and/or radio.

Please fax the completed survey to: Paula Ewen (202)366-3302